



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Improvements and Asphaltting to Roads at Thindlu, Veerabadrswamy Temple and Surrounding Areas in Ward No.09 (Vidyaranyapura)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
3	Coarse aggregate(20 mm down size)	Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	1 set /1-5 cum	1.44	2	2
9	RCC (M20)	Compressive Strength(7days and 28days)	5 set /50-100 cum	83.25	10	10

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10	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	4 set /31-50 cum	40.13	8	8
11	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
12	BM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
13	BC	Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
14	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
15	TACK COAT	Rate of spread	One Test		1	1
16	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
17	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-12-12-15 Date: 08-11-22
 Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP,
 Address : Vidyanayapura Sub Division, BBMP, Bangalore.
 Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadraswamy
 Agency : Temple and Surrounding Areas in Ward No.09 (Vidyanayapura)
 Sri.B.Chandrashekar, #28, Anjaneya Swamy layout, 1st main road,
 Thindlu, Vidyanayapura (Post), Bangalore-97
 Customer's Reference : BBMP/EE/BTP/WO/28/2020-21
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 05-11-22
 Sample Type : Birla Super 53grade
 Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
 IS 4031 (Part 1,2,3,4,5, 6,11):1988
 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING,
 Clause 4.4
 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability
 Method, Clause 5
 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste,
 Clause 5
 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
 IS 4031 Part 11, (RA 2019) DETERMINATION OF DENSITY , Clause 6

Date of test : 06-11-22

Environmental Conditions during test : Temperature: 26°C
 Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	—
2	Finess by Air permeablity method (m ² /kg,Min)	285.4	225m ² /kg, Min
3	Density (gm/cc)	3.14	—
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

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 All information furnished by Customer/Representative
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 Samples will be disposed after 30 days from the date of issue of test certificate

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-12-12-15 Date: 04-12-22
 Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
 Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
 Project Name : Improvements and Asphalting to Roads at Thindlu, Veerabadrswamy Temple and Surrounding Areas in Ward No.09 (Vidyaranyapura)
 Agency : Sri.B.Chandrashekar, #28, Anjaneya Swamy layout, 1st main road, Thindlu, Vidyaranyapura (Post), Bangalore-97
 Customer's Reference : BBMP/EE/BTP/WO/28/2020-21
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 05-11-22
 Sample Type : Birla Super 53grade
 Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
 Date of test : 06-11-22
 Environmental Conditions during test : Temperature: 26°C
 Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	55.0N/mm ²	Not less than 53 N/mm ²

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-12-12-15 Date: 07-11-22
Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
Address : Vidyanarayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadraswamy Temple and Surrounding Areas in Ward No.09
Agency : Sri.B.Chandrashekar, #28, Anjaneya Swamy layout, 1st main road, Thindlu, Vidyanarayapura (Post), Bangalore-97
Customer's Reference : BBMP/EE/BTP/WO/28/2020-21
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 05-11-22
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 05-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2022-12-12-15

Date: 07-11-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.48	—
5	Bulk Density(Compacted) (Kg/l)	1.52	—
6	Water Absorption(%)	0.22	—

* The results obtained are satisfactory as per standard requirements.

Note:

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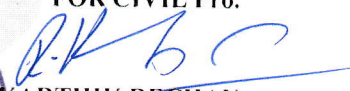
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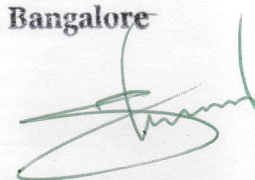


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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-12-12-15 Date: 07-11-22
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphalting to Roads at Thindlu, Veerabadraswamy Temple and Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri.B.Chandrashekar, #28, Anjaneya Swamy layout, 1st main road, Thindlu, Vidyaranyapura (Post), Bangalore-97
Customer Reference : BBMP/EE/BTP/WO/28/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-11-22
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 05-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	—

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TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2022-12-12-15

Date: 07-11-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Unerushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	—
4	Bulk Density(Loose) (Kg/l)	1.54	—
5	Bulk Density(Compacted) (Kg/l)	1.58	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-12-12-15 Date: 07-11-22
 Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.
 Address : Vidyanayapura Sub Division, BBMP, Bangalore.
 Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadrswamy Temple and Surrounding Areas in Ward No.09 (Vidyanayapura)
 Agency : Sri.B.Chandrashekar, #28, Anjaneya Swamy layout, 1st main road, Thindlu, Vidyanayapura (Post), Bangalore-97
 Customer's Reference : BBMP/EE/BTP/WO/28/2020-21
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 05-11-22
 Sample Type : Fine Aggregate
 Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
 IS: 2386 :1963(Part - 1, 3) RA2021
 IS 2386 Part 1: Particle Size and Shape
 IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
 Date of test : 05-11-22
 Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	29	29	2.9	97.1	90-100	90-100	90-100	95-100
3	2.36 mm	57	86	8.6	91.4	60-95	75-100	85-100	95-100
4	1.18 mm	237	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	208	531	53.1	46.9	15-34	35-59	60-79	80-100
6	300 micron	197	728	72.8	27.2	5-20	8-30	12-40	15-50
7	150 micron	189	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-12-12-15

Date: 07-11-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.10	—
2	Specific Gravity	2.58	—
3	Material finer than 75 micron(%)	8.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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****End of Report****
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2022-12-12-15 Date: 07-11-22

Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Address : Vidyanarayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadraswamy Temple and Surrounding Areas in Ward No.09 (Vidyanarayapura)

Agency : Sri.B.Chandrashekar, #28, Anjaneya Swamy layout, 1st main road, Thindlu, Vidyanarayapura (Post), Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/28/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-11-22

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

Date of test : 06-11-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.390	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	544	668	20.0%	Satisfactory	Satisfactory

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2022-12-12-15 Date: 10-11-22

Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Address : Vidyanarayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadrswamy Temple and Surrounding Areas in Ward No.09 (Vidyanarayapura)

Agency : Sri.B.Chandrashekar, #28, Anjaneya Swamy layout, 1st main road, Thindlu, Vidyanarayapura (Post), Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/28/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-11-22

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 06/11/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	100.01	100.48	1.245	7854	145.5	18.5	17.2	21.5
2	Cover Slab-2	100.04	100.52	1.367	7859	136.2	17.3	16.1	20.1
3	Cover Slab-3	100.02	100.51	1.458	7856	149.5	19.0	17.7	22.1

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Kodigehalli Sub Division
BBMP, Bangalore



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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-12-12-15 Date: 15/11/2022

Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.

Address : Vidyanayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadrswamy Temple and Surrounding Areas in Ward No.09 (Vidyanayapura)

Agency : Sri.B.Chandrashekar, #28, Anjaneya Swamy layout, 1st main road, Thindlu, Vidyanayapura (Post), Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/28/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-11-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	08/11/2022	15/11/2022	150.46 X 150.31 X 149.53	22615	8.477	278.7	12.3	12.5
2	PCC	M15	08/11/2022	15/11/2022	150.49 X 150.90 X 151.20	22709	8.118	280.4	12.3	
3	PCC	M15	08/11/2022	15/11/2022	150.60 X 151.59 X 151.76	22830	8.101	289.5	12.7	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-12-12-15 Date: 06/12/2022

Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Address : Vidyanarayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadrswamy Temple and Surrounding Areas in Ward No.09 (Vidyanarayapura)

Agency : Sri.B.Chandrashekar, #28, Anjaneya Swamy layout, 1st main road, Thindlu, Vidyanarayapura (Post), Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/28/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-11-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	08/11/2022	06/12/2022	150.14 X 151.55 X 151.29	22754	8.385	409.3	18.0	17.5
2	PCC	M15	08/11/2022	06/12/2022	149.23 X 150.64 X 151.70	22479	9.092	394.7	17.6	
3	PCC	M15	08/11/2022	06/12/2022	150.99 X 151.45 X 149.28	22868	8.625	389.1	17.0	

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : CP-2022-12-12-15 Date: 13-11-22
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadraswamy Temple and Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri.B.Chandrashekar, #28, Anjaneya Swamy layout, 1st main road, Thindlu, Vidyaranyapura (Post), Bangalore-97
Customer's Reference : BBMP/EE/BTP/WO/28/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 10-11-22
Sample Type : Fine Aggregate, M.Sand for Mortar
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 10-11-22
Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	87	87	8.7	91.3	90-100
3	1.18 mm	191	278	27.8	72.2	70-100
4	600 micron	146	424	42.4	57.6	40-100
5	300 micron	117.5	541.5	54.2	45.9	5-70
6	150 micron	396.5	938	93.8	6.2	0-15
7	Pan	62	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : CP-2022-12-12-15

Date: 13-11-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.17	—
2	Specific Gravity	2.53	—
3	Material finer than 75 micron(%)	7.8	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.89	—
5	Loose Bulk Density (Kg/litre)	1.72	—

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TEST REPORT FOR PLASTER SAND

Lab ID : CP-2022-12-12-15 Date: 14-11-22

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadraswamy Temple and Surrounding Areas in Ward No.09 (Vidyananyapura)

Agency : Sri.B.Chandrashekar, #28, Anjaneya Swamy layout, 1st main road, Thindlu, Vidyananyapura (Post), Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/28/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-11-22

Sample Type : Plaster Sand

Reference to BIS codes : IS: 383 : 2016 (Specification for Coarse and fine Aggregates)
IS1542:1992 (RA 2019) (Sand for Plaster - Specification)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 10-11-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	37	37	3.7	96.3	95-100
3	2.36 mm	16	53	5.3	94.7	95-100
4	1.18 mm	61	114	11.4	88.6	90-100
5	600 micron	63	177	17.7	82.3	80-100
6	300 micron	215	392	39.2	60.8	20-65
7	150 micron	510	902	90.2	9.8	0-15
8	Pan	98	1000	100	0	---

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Certificate No.: TC-5548

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-12-12-15

Date: 14-11-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.9	—
2	Specific Gravity	2.55	—
3	Material finer than 75 micron(%)	9.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Certificate No.: TC-5548

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : CP-2022-12-12-15 Date: 14-11-22

Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Address : Vidyanarayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadraswamy Temple and Surrounding Areas in Ward No.09 (Vidyanarayapura)

Agency : Sri.B.Chandrashekar, #28, Anjaneya Swamy layout, 1st main road, Thindlu, Vidyanarayapura (Post), Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/28/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-11-22

Sample Type/Size : Solid concrete blocks size (400X150X200)mm

Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and 10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)

Date of test : 10-11-22

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	402	149	201	12039	23.87	1983.0	1902.9	Not less than 1800Kg/m ³
2	400	152	199	12099	23.89	1974.9		
3	402	153	200	12301	21.54	1750.7		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	24.91	23.94	3.89	3.92	Shall not be more than 10% by mass
2	25.57	24.48	4.28		
3	24.44	23.57	3.59		

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Certificate No.: TC-5548

Lab ID : CP-2022-12-12-15

Date: 14-11-22

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	150	203	Length : $\pm 5\text{mm}$ Breadth : $\pm 3\text{mm}$ Height : $\pm 3\text{mm}$
2	400	151	201	
3	400	152	202	
4	403	152	200	
5	403	152	201	
6	403	151	199	
7	401	150	199	
8	402	153	199	
9	404	150	201	
10	400	151	199	
11	401	153	202	
12	403	151	202	
13	403	153	202	
14	400	151	202	
15	401	150	199	
16	402	150	200	
17	403	151	203	
18	402	150	199	
19	399	151	202	
20	402	149	200	
Average of 20	402	151	201	

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Certificate No.: TC-5548

Lab ID : CP-2022-12-12-15

Date: 14-11-22

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	400	150	60050	247.5	4.1	4.2
2	400	151	60351	284.2	4.7	
3	400	152	60774	268.8	4.4	
4	403	152	61156	238.9	3.9	
5	403	152	61288	261.1	4.3	
6	403	151	60810	240.0	3.9	
7	401	150	60120	258.8	4.3	
8	402	153	61517	257.4	4.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

* The Results Obtained are Satisfactory as per Standard Requirements

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-12-12-15 Date: 17/11/2022

Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Address : Vidyanarayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadraswamy Temple and Surrounding Areas in Ward No.09 (Vidyanarayapura)

Agency : Sri.B.Chandrashekar, #28, Anjaneya Swamy layout, 1st main road, Thindlu, Vidyanarayapura (Post), Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/28/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-11-22

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	10/11/2022	17/11/2022	149.08 X 150.72 X 150.73	22471	8.533	415.1	18.5	18.5
2	Drain Concrete	M20	10/11/2022	17/11/2022	151.55 X 150.30 X 151.36	22778	8.476	432.7	19.0	
3	Drain Concrete	M20	10/11/2022	17/11/2022	149.13 X 151.06 X 150.48	22528	8.718	406.3	18.0	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-12-12-15 Date: 17/11/2022

Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.

Address : Vidyanayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphalting to Roads at Thindlu, Veerabadraswamy Temple and Surrounding Areas in Ward No.09 (Vidyanayapura)

Agency : Sri.B.Chandrashekar, #28, Anjaneya Swamy layout, 1st main road, Thindlu, Vidyanayapura (Post), Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/28/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-11-22

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5

Date of test : 17/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	10/11/2022	17/11/2022	151.24 X 151.86 X 151.05	22968	8.664	423.0	18.4	18.5
2	Drain Concrete	M20	10/11/2022	17/11/2022	149.81 X 149.17 X 151.04	22348	8.699	408.6	18.3	
3	Drain Concrete	M20	10/11/2022	17/11/2022	150.67 X 150.95 X 152.00	22743	8.453	426.1	18.7	

* The results obtained are satisfactory as per standard requirements.

Note:

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BBMP, Bangalore



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-12-12-15 Date: 17/11/2022

Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Address : Vidyanarayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadrswamy Temple and Surrounding Areas in Ward No.09 (Vidyanarayapura)

Agency : Sri.B.Chandrashekar, #28, Anjaneya Swamy layout, 1st main road, Thindlu, Vidyanarayapura (Post), Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/28/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-11-22

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5

Date of test : 17/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	10/11/2022	17/11/2022	151.45 X 149.70 X 151.87	22672	8.378	409.9	18.1	18.4
2	Drain Concrete	M20	10/11/2022	17/11/2022	149.55 X 149.38 X 151.84	22340	8.708	409.3	18.3	
3	Drain Concrete	M20	10/11/2022	17/11/2022	151.40 X 149.42 X 151.93	22622	8.324	425.3	18.8	

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Lab ID : CP-2022-12-12-15 Date: 17/11/2022

Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Address : Vidyanarayapura Sub Division, BBMP, Bangalore.

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Agency : Sri.B.Chandrashekar, #28, Anjaneya Swamy layout, 1st main road, Thindlu, Vidyanarayapura (Post), Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/28/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-11-22

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	10/11/2022	17/11/2022	149.93 X 149.49 X 149.73	22414	8.447	420.0	18.7	18.6
2	Drain Concrete	M20	10/11/2022	17/11/2022	151.17 X 151.64 X 150.41	22924	8.385	416.9	18.2	
3	Drain Concrete	M20	10/11/2022	17/11/2022	149.10 X 150.38 X 150.66	22421	8.518	421.7	18.8	

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Lab ID : CP-2022-12-12-15 Date: 17/11/2022

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Agency : Sri.B.Chandrashekar. #28, Anjaneya Swamy layout. 1st main road, Thindlu, Vidyanayapura (Post), Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/28/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-11-22

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Concrete	M20	10/11/2022	17/11/2022	150.39 X 150.46 X 151.80	22628	8.365	393.0	17.4	17.4
2	Drain Concrete	M20	10/11/2022	17/11/2022	149.17 X 149.70 X 151.45	22332	8.786	418.4	18.7	
3	Drain Concrete	M20	10/11/2022	17/11/2022	149.77 X 149.73 X 150.90	22425	8.393	361.1	16.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-12-12-15 Date: 22/11/2022

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Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphalting to Roads at Thindlu, Veerabadraswamy Temple and Surrounding Areas in Ward No.09 (Vidyananyapura)

Agency : Sri.B.Chandrashekar, #28, Anjaneya Swamy layout, 1st main road, Thindlu, Vidyananyapura (Post), Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/28/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-11-22

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	15/11/2022	22/11/2022	150.80 X 150.41 X 150.96	22682	8.525	588.3	25.9	25.7
2	Cement Concrete Pavement	M30	15/11/2022	22/11/2022	150.94 X 150.02 X 150.63	22644	8.793	601.2	26.6	
3	Cement Concrete Pavement	M30	15/11/2022	22/11/2022	149.67 X 150.94 X 150.75	22591	8.889	553.8	24.5	

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Customer's Reference : BBMP/EE/BTP/WO/28/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-11-22

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	15/11/2022	22/11/2022	150.81 X 150.55 X 151.22	22705	8.766	577.4	25.4	25.2
2	Cement Concrete Pavement	M30	15/11/2022	22/11/2022	149.36 X 149.22 X 149.60	22288	8.909	581.6	26.1	
3	Cement Concrete Pavement	M30	15/11/2022	22/11/2022	150.36 X 149.26 X 149.82	22444	8.275	539.6	24.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-12-12-15 Date: 22/11/2022

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadraswamy Temple and Surrounding Areas in Ward No.09 (Vidyananyapura)

Agency : Sri.B.Chandrashekar, #28, Anjaneya Swamy layout, 1st main road, Thindlu, Vidyananyapura (Post), Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/28/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-11-22

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	15/11/2022	22/11/2022	151.84 X 151.08 X 149.74	22940	8.581	582.7	25.4	25.5
2	Cement Concrete Pavement	M30	15/11/2022	22/11/2022	149.40 X 151.42 X 150.47	22622	8.464	606.5	26.8	
3	Cement Concrete Pavement	M30	15/11/2022	22/11/2022	150.34 X 151.01 X 150.57	22702	8.196	552.1	24.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-12-12-15 Date: 22/11/2022

Customer : Assistant Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.

Address : Vidyanarayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphalting to Roads at Thindlu, Veerabadrswamy Temple and Surrounding Areas in Ward No.09 (Vidyanarayapura)

Agency : Sri.B.Chandrashekar, #28, Anjaneya Swamy layout, 1st main road, Thindlu, Vidyanarayapura (Post), Bangalore-97

Customer's Reference : BBMP/EE/BTP/WO/28/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-11-22

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	15/11/2022	22/11/2022	150.77 X 149.76 X 151.43	22578	8.646	568.6	25.2	25.7
2	Cement Concrete Pavement	M30	15/11/2022	22/11/2022	150.70 X 149.24 X 150.66	22491	8.661	605.3	26.9	
3	Cement Concrete Pavement	M30	15/11/2022	22/11/2022	151.33 X 149.73 X 149.31	22658	8.819	566.4	25.0	

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2022-12-12-15 Date: 23-11-22
 Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
 Address : Vidyananyapura Sub Division, BBMP, Bangalore.
 Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadrasswamy Temple and Surrounding Areas in Ward No.09 (Vidyananyapura)
 Agency : Sri.B.Chandrashekar, #28, anjaneya Swamy layout, 1st main road, Thindlu, Vidyananyapura (Post), Bangalore-97
 Customer Reference : BBMP/EE/BTP/WO/28/2020-21
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 21-11-22
 Type of Mix : WMM (Wet Mix Macadam)
 Date of Test : 21-11-22
 Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	312	312	3.1	96.9	95-100
22.4	2236	2548	25.5	74.5	60-80
11.2	2165	4713	47.1	52.9	40-60
4.75	2245	6958	69.6	30.4	25-40
2.36	1431	8389	83.9	16.1	15-30
0.6	645	9034	90.3	9.7	8-22
0.075	814	9848	98.5	1.5	0-5

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TEST REPORT OF AGGREGATE IMPACT VALUE

IS: 2386 Part IV

Lab ID : CP-RW-2022-12-12-15 Date: 23-11-22
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadraswamy Temple and Surrounding Areas in Ward No.09 (Vidyananyapura)
Agency : Sri.B.Chandrashekar, #28, anjaneya Swamy layout, 1st main road, Thindlu, Vidyananyapura (Post), Bangalore-97
Customer Reference : BBMP/EE/BTP/WO/28/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 21-11-22
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test : 21-11-22

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.1	300.1
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	74.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	224.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.3
5	Aggregate impact value	(B/A)*100	25.0	24.7
6	Aggregate impact value (Mean of two tests)	Percentage	24.8	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-RW-2022-12-12-15 Date: 23-11-22
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadrswamy Temple and Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri.B.Chandrashekar, #28, anjaneya Swamy layout, 1st main road, Thindlu, Vidyaranyapura (Post), Bangalore-97
Customer Reference : BBMP/EE/BTP/WO/28/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 21-11-22
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test : 21-11-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.7%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.8%	
Combined Flakiness and Elongation Index for WMM	25.5%	

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR BM (IS 2386:(Part 1) 1963 (RA2011))

Lab ID : CP-RW-2022-12-12-15 Date: 30-11-22
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP,
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadraswamy
Temple and Surrounding Areas in Ward No.09 (Vidyananyapura)
Agency : Sri.B.Chandrashekar, #28, anjaneya Swamy layout, 1st main road, Thindlu,
Vidyananyapura (Post), Bangalore-97
Customer Reference : BBMP/EE/BTP/WO/28/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 28-11-22
Type of Mix : BM-Plant (Bituminous Macadam)
Date of Test : 28-11-22
Weight of Sample(gm) : 5000

IS Sieve Size(mm)	Weight Retained(gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	158	158	3.2	96.8	90-100
13.2	517	675	13.5	86.5	56-88
4.75	2769	3444	68.9	31.1	16-36
2.36	899	4343	86.9	13.1	4-19
0.3	360	4703	94.1	5.9	2-10
0.075	231	4934	98.7	1.3	0-8
PAN	66	5000	100.0	0.0	0

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Certificate No.: TC-5548

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS MACADAM

Lab ID : CP-RW-2022-12-12-15 Date: 01-12-22

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadraswamy Temple and Surrounding Areas in Ward No.09 (Vidyananyapura)

Agency : Sri.B.Chandrashekar, #28, anjaneya Swamy layout, 1st main road, Thindlu, Vidyananyapura (Post), Bangalore-97

Customer Reference : BBMP/EE/BTP/WO/28/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-11-22

Type of Mix : BM (Bituminous Macadam)

Date of Test : 28-11-22

Table 500-6 : Physical Requirements fo Coarse Aggregate for Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	13.9	Combined Flakiness & Elongation Index for BM is Maximum 35%	IS:2386 Part I
	Elongation Index	7.3		
Strength	Aggregate Impact Value	25.3	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.53	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.18	Maximum 2%	IS:2386 Part III

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The results pertain to the samples received and tested.

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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : CP-RW-2022-12-12-15 Date: 01-12-22
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadraswamy Temple and Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri.B.Chandrashekar, #28, anjaneya Swamy layout, 1st main road, Thindlu, Vidyaranyapura (Post), Bangalore-97
Customer Reference : BBMP/EE/BTP/WO/28/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 28-11-22
Type of Mix : BM(Bitumnous Macadam)
Date of Test : 28-11-22
Type of Binder : 60/70
% of Binder Used : 5.0%
Weight of Aggregate : 200.0 gm
Weight of Binder : 10.0 gm
Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.1	1.9	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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Note:-

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Certificate No.: TC-5548

TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2022-12-12-15 **Date:** 01-12-22
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadraswamy Temple and Surrounding Areas in Ward No.09 (Vidyananyapura)
Agency : Sri.B.Chandrashekar, #28, anjaneya Swamy layout, 1st main road, Thindlu, Vidyananyapura (Post), Bangalore-97
Customer Reference : BBMP/EE/BTP/WO/28/2020-21
Source of Sample : Hot Mix Plant, Bangalore
Sample Condition : Satisfactory
Date of Receipt : 28-11-22
Type of Mix : BM (Bituminous Mecadam)
Date of Test : 28-11-22

The results of the tests conducted on the Bituminous Macadam mix sample are as follow				
Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.31	11.72	9KN(Min)
2	Marshal flow at 60°C, mm	3.64	3.78	2-4
3	Percent air Voids	4.54	4.15	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.34	14.61	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.38	72.28	65-75
6	Density, g/cc	2.42	2.40	—

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**TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011))**

Lab ID : CP-RW-2022-12-15 Date: 04-12-22
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadraswamy Temple and Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri.B.Chandrashekar, #28, anjaneya Swamy layout, 1st main road, Thindlu, Vidyaranyapura (Post), Bangalore-97
Customer Reference : BBMP/EE/BTP/WO/28/2020-21
Source of Sample : Sample supplied by Agency
Date of Receipt : 03-12-22
Type of Mix : BM (Bituminous Macadam)
Date of Test : 03-12-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	483	483
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	3.40	3.40
4	Average percentage	%	3.40	

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Certificate No.: TC-5548

Lab ID : CP-RW-2022-12-12-15

Date: 04-12-22

AFTER EXTRACTION(Trail-1)

Weight of Sample : 483 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	39	39	8.1	91.9	90-100
13.2	147	186	38.5	61.5	56-88
4.75	192	378	78.3	21.7	16-36
2.36	26	404	83.6	16.4	4-19
0.3	32	436	90.3	9.7	2-10
0.075	28	464	96.1	3.9	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 483 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	36	36	7.5	92.5	90-100
13.2	147	183	37.9	62.1	56-88
4.75	191	374	77.4	22.6	16-36
2.36	28	402	83.2	16.8	4-19
0.3	41	443	91.7	8.3	2-10
0.075	30	473	97.9	2.1	0-8

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TEST RESULTS OF GRADATION FOR BC IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : CP-RW-2022-12-12-15 Date: 02-12-22
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadraswamy
Agency : Sri.B.Chandrashekar, #28, anjaneya Swamy layout, 1st main road, Thindlu,
Vidyaranyapura (Post), Bangalore-97
Customer Reference : BBMP/EE/BTP/WO/28/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 30-11-22
Type of Mix : BC-Plant (Bituminous Concrete)
Date of Test : 30-11-22
Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	84	84	1.7	98.3	90-100
9.5	702	786	15.7	84.3	70-88
4.75	895	1681	33.6	66.4	53-71
2.36	587	2268	45.4	54.6	42-58
1.18	492	2760	55.2	44.8	34-48
0.6	503	3263	65.3	34.7	26-38
0.3	528	3791	75.8	24.2	18-28
0.15	458	4249	85.0	15.0	12-20
0.075	350	4599	92.0	8.0	4-10
PAN	401	5000	100	0.0	0

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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : CP-RW-2022-12-12-15 Date: 03-12-22
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphalting to Roads at Thindlu, Veerabadraswamy
Temple and Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri.B.Chandrashekar, #28, anjaneya Swamy layout, 1st main road,
Thindlu, Vidyaranyapura (Post), Bangalore-97
Customer Reference : BBMP/EE/BTP/WO/28/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 30-11-22
Type of Mix : BC(Bitumenous Concrete)
Date of Test : 30-11-22

Type of Binder : 60/70
% of Binder Used : 5.0%
Weight of Aggregate : 200.0 gm
Weight of Binder : 10.0 gm
Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.4	1.6	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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Certificate No.: TC-5548

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID : CP-RW-2022-12-12-15 Date: 03-12-22
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadrswamy Temple and Surrounding Areas in Ward No.09 (Vidyananyapura)
Agency : Sri.B.Chandrashekar, #28, anjaneya Swamy layout, 1st main road, Thindlu, Vidyananyapura (Post), Bangalore-97
Customer Reference : BBMP/EE/BTP/WO/28/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 30-11-22
Type of Mix : BC (Bituminous Concrete)
Date of Test : 30-11-22

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.3	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.7		
Strength	Aggregate Impact Value	22.2	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.67	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.22	Maximum 2%	IS:2386 Part III

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Certificate No.: TC-5548

TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2022-12-12-15 Date: 03-12-22
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadraswamy Temple and Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri.B.Chandrashekar, #28, anjaneya Swamy layout, 1st main road, Thindlu, Vidyaranyapura (Post), Bangalore-97
Customer Reference : BBMP/EE/BTP/WO/28/2020-21
Source of Sample : Hot Mix Plant, Bangalore
Sample Condition : Satisfactory
Date of Receipt : 30-11-22
Type of Mix : BC (Bituminous Concrete)
Date of Test : 30-11-22

The results of the tests conducted on the Bituminous Concrete mix sample are as follow				
Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.17	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.42	3.51	2-4
3	Percent air Voids	4.72	4.81	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.27	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.86	71.59	65-75
6	Density, g/cc	2.24	2.26	—

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Customer/ Representative

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2022-12-12-15 Date: 06-12-22
Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
Address : Vidyananyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadrswamy Temple and Surrounding Areas in Ward No.09 (Vidyananyapura)
Agency : Sri.B.Chandrashekar, #28, anjaneya Swamy layout, 1st main road, Thindlu, Vidyananyapura (Post), Bangalore-97
Customer Reference : BBMP/EE/BTP/WO/28/2020-21
Source of Sample : Sample supplied by Agency
Date of Receipt : 05-12-22
Type of Mix : BC (Bituminous Concrete)
Date of Test : 05-12-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	469	468.5
3	Bitumen percentage	$\frac{A-B}{A} \times 100$ A	6.20	6.30
4	Average percentage	%	6.3	

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Kodigehalli Sub Division
BBMP, Bangalore



FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Lab ID : CP-RW-2022-12-12-15

Date: 06-12-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 469

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.9	99.1	90-100
9.5	63	67	14.3	85.7	70-88
4.75	112	179	38.2	61.8	53-71
2.36	88	267	56.9	43.1	42-58
1.18	29	296	63.1	36.9	34-48
0.6	11	307	65.5	34.5	26-38
0.3	48	355	75.7	24.3	18-28
0.15	46	401	85.5	14.5	12-20
0.075	55	456	97.2	2.8	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 468.5

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.9	99.1	90-100
9.5	62	66	14.1	85.9	70-88
4.75	112	178	38.0	62.0	53-71
2.36	88	266	56.8	43.2	42-58
1.18	29	295	63.0	37.0	34-48
0.6	11	306	65.3	34.7	26-38
0.3	46	352	75.1	24.9	18-28
0.15	45	397	84.7	15.3	12-20
0.075	55	452	96.5	3.5	4-10

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Customer/ Representative

Any correction in the report will make this report invalid.

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID : CP-2022-12-12-15 Date: 26-11-22
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadrswamy Temple and Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri.B.Chandrashekar, #28, anjaneya Swamy layout, 1st main road, Thindlu, Vidyaranyapura (Post), Bangalore-97
Customer's Reference : BBMP/EE/BTP/WO/28/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-11-22
Sample Type : Bitumen
Reference to BIS codes : IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test : 24-11-22

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	68.2	60 to 70
2	Softening Point, °C	55.4	Min. 40°C
3	Ductility, cm	100	Min. 75cm
4	Flash point, °C	298	Min. 220°C
	Fire point, °C	310	

* The results obtained are satisfactory as per standard requirements.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2022-12-12-15 Date: 06-12-22
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements and Asphaltting to Roads at Thindlu, Veerabadraswamy Temple and Surrounding Areas in Ward No.09 (Vidyaranyapura)
Agency : Sri.B.Chandrashekar, #28, anjaneya Swamy layout, 1st main road, Thindlu, Vidyaranyapura (Post), Bangalore-97
Customer Reference : BBMP/EE/BTP/WO/28/2020-21
Sample Condition : Satisfactory
Date of Receipt : 05-12-22
Type of Mix : Tack coat
Date of Test : 05-12-22

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.76
4	Final weight of plate after application of tack Coat (c)	Kg	0.804	0.785
5	Weight of tack Coat (d=c-b)	Kg	0.024	0.025
6	Rate of spread of tack coat	Kg/sq.m	0.267	0.278
7	Average	Kg/sq.m	0.272	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

Note:-

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End of Report
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